Innovation matters
Decades of industrial bag know-how at your service

IN TOUCH EVERY DAY
www.mondigroup.com
Innovating the paper bag?

How can a paper bag possibly be innovative, you may wonder. We hope this brochure will help answer that question. Consider, for example, the ordinary brown cement bag: there is a lot more to a fibre-based industrial bag than you might think. Mondi has many decades of experience in the development and production of different types of industrial bags, and you can see some of our achievements on these pages. But it does not stop there: Mondi conducts ongoing R&D in the field of industrial bags, and keeps in close touch with customers to determine the market needs of the future.

Mondi Industrial Bags is the world’s leading producer of paper-based industrial bags. Since producing the very first paper bag, Mondi has built an extensive network of plants and sales offices around the world, allowing us to provide outstanding service suited for your needs wherever you are.

We offer a broad industrial bag portfolio for various sectors, such as the construction and food industry or agriculture. Over the years our innovations have included the development of high-performance paper and state-of-the-art de-aeration techniques optimised for high-speed filling. If your products require special protection, you can rely on Mondi for sophisticated features such as hermetic sealing and barrier liners.

In search of specific features?
… Mondi will work on a solution with you

Our industrial bags are suitable for many applications, and if there is no immediate solution for your specific needs, we will work on one with you. Mondi serves a broad range of industries, and by interacting closely with customers and listening to feedback, we are able to improve and enhance our products on an ongoing basis. The secret to innovation is to listen to customers!
Mondi’s R&D Innovation Centre for sack kraft paper and the Bag Application Centre (BAC) for industrial paper bags, both located in Frantschach, Austria, are where we analyse, develop and optimise paper-based bags. Efforts are geared to achieving steady improvement, with the overall goal of taking industrial bag solutions to a whole new level.

The R&D Innovation Centre
… Innovation in sack kraft paper

At the R&D Innovation Centre, research focuses on developing new or improved sack kraft paper. We analyse and assess existing and proposed materials, including kraft pulp, with a view to achieving increased paper strength, better de-aeration and improved mechanical properties.

The Bag Application Centre (BAC)
… Rigorous testing

At the BAC, our application engineering team analyses the bags’ strength, de-aeration properties as well as behaviour during filling and under different storage conditions. To test bag constructions, we perform simulations of specific situations using state-of-the-art technology.
INNOVATIVE SOLUTIONS FOR YOUR COMPANY’S SUCCESS

Our primary goal is to create solutions for our customers’ success, delivering exceptional value in a sustainable way.

WHAT?
- **Innovative BAG SOLUTIONS** with added value closely oriented to customers’ needs such as the Terra Bag® and the SmartID Bag
- **Innovative PROCESS SOLUTIONS** which help streamline customers’ production processes delivering added value

HOW? IN CLOSE COOPERATION WITH YOU!
- Together, we **optimise sack kraft paper** to achieve improved strength and de-aeration.
- Based on your needs, we **optimise your bag’s construction** for improved filling properties and product protection.
- Working with our customers, we **optimise filling processes** to ensure efficient filling and increased productivity.

R&D
Research is carried out at our R&D Innovation Centre and/or our Bag Application Centre. Experts from our own filling equipment producer Natro Tech visit customers’ facilities to help adapt solutions on site.

NEW IDEAS?
New bag constructions are developed at our plants in close collaboration with our customers or independently designed by our application engineers.

Some of the highlights …

The early days

1970s

- **Easy Open**
  - Bag with easy open strip.

1980s

- **Handle bag**
  - Bag with a handle.

2003

- **ONE**
  - One-ply bag that allows high-speed filling of fine and powder bulk materials. Dust-free and clean. High-performance paper, for cost savings, lightweighting and easy disposal (biodegradable).

- **Winner of an embalissimo in 2003 and the ARA Special Prize 2005**

- **Mini Bag**
  - Small-sized bag, developed in collaboration with a filling equipment producer and a filler.

Some of the highlights …
‘Bag to nature’ with Mondi’s Terra Bag®

The world’s first biodegradable valve bag

The world’s first biodegradable industrial paper bag with humidity protection and certified compostability, the Terra Bag®, was developed by Mondi Industrial Bags. It consists of a paper bag (one or more plies) with a biodegradable film for humidity protection. The entire bag is biodegradable and optimised for industrial composting. The Terra Bag® is certified according to EN 13432, a harmonised European standard that defines the ‘Requirements for packaging recoverable through composting and biodegradation’. A revolutionary approach for sustainable waste management of industrial bags, the Terra Bag® was developed in close collaboration with the French cement producer Ciments Calcia (Italcementi Group), the film extruder Barbier and agricultural seed producer and Mondi customer Limagrain.

DISINTEGRATION TEST RUN BY ORGANIC WASTE SYSTEMS

At start

After 2 weeks of composting

After 4 weeks of composting

After 8 weeks of composting

After 10 weeks of composting

After 12 weeks of composting

... throughout the years

Security Label Bag
A label pre-applied to the bag during production enables the end user to distinguish between fake and original products. The combination of high-tech characteristics makes the Security Label Bag an effective instrument against forgery.

emballissimo award 2010 for special customer solution + label

Window Bag
A transparent window made from PE film ensures that the bag’s contents are visible. The Window Bag can be used for a wide range of applications. What you see is what you get! No need for expensive printing on the packaging.

ONE™
All the advantages of ONE, plus a PE moisture barrier for enhanced humidity protection. Biodegradable film with certified compostability available.

emballissimo award 2005

Protector Bag
Ideal for transportation and storage of bulky goods, thanks to flexible and resistant protection. Via secondary packaging, products are packed onto a single shipping unit to provide further damage protection and drastically reduce packaging volume and costs.

2005
Mondi’s Sheekan Bag with Easy Seal valve

A winning combination: product protection and high filling speed

Mondi’s Sheekan Bag, an industrial bag with a complete moisture barrier, was optimised in collaboration with Austrian construction materials producer Baumit Wopfinger. The clever bag design protects its contents from moisture by combining a PE film with an adhesive strip, while also ensuring high filling speed – a priority for construction materials. The bag’s Easy Seal valve, another Mondi invention, provides further protection for the contents during handling and storage.

“Building materials have to be stored dry, otherwise they react with moisture prior to use. We want to offer our customers long storage times, so we went in search of a solution which would provide our construction materials with optimum protection and would also function well during the production process.”

Günter Handler, Head of Purchasing at Baumit Wopfinger

Airstream Bag®
A bag with high air permeability and excellent moisture protection. Perfect for moisture-sensitive fine powders (e.g. gypsum, cement, floor levelling compounds) where it is important not to compromise on filling speed.

Sheekan Bag
The combination of a PE film and an adhesive strip allows both outstanding moisture protection and high-speed filling. The optional Easy Seal valve provides further protection for contents during handling and storage.

World Bag®
Perfect for exporting products with extensive directions for use or safety instructions. World Bag® offers up to three times more printing space thanks to a printable flap that can be opened like a book. For easier production and logistics processes.

Easy Seal
Reliable, fast and strong valve sealing accelerates the customer’s production process. Patented by Mondi. Eco-friendly and customisable to all valve bags.
Recent awards

2018 – EUROSAC Grand Prix
Mondi Industrial Bags won the EuroSac Grand Prix for its MailerBAG at 2018 EuroSac Congress in Malta. A paper bag designed to lower the logistic costs and simplify the shipping process in e-commerce industry.

2016 – PART Award, RosUpack
Mondi Industrial Bags received the PART Award for the HYBRIDpro Bag at the Russian International Exhibition for the Packaging Industry, RosUpack, for its proven commitment to sustainability.

2016 – Saint Gobain Supplier Award
Mondi Industrial Bags received the ‘Limiting Environmental Impact Award’ at the 2016 Saint-Gobain Construction Products UK Supplier Conference and Awards.

2013 – embalissimo award
Mondi’s Sheekan Bag, an industrial bag with a complete moisture barrier and outstanding de-aeration combined with Easy Seal, an ultrasonic sealable valve received an embalissimo award.

2010 – embalissimo award
The Security Label Bag won the embalissimo award for industrial packaging.

2010 – EUROSAC Grand Prix
Our biodegradable paper-based Terra Bag® won the EUROSAC Grand Prix as Sack of the Year 2010.

2008 – WorldStar Award
The handy Effusion Bag received the WorldStar Award after qualifying through winning an embalissimo that same year. In addition, this precise dosing solution won the EUROSAC Grand Prix in 2011.

2005 – Austrian State Prize for Exemplary Packaging
The one-ply bag solution ONE received the Austrian State Prize for Exemplary Packaging, following an embalissimo award in 2003.

R&D Innovation Centre
Ongoing R&D in the fields of pulp and sack kraft paper. Driving the innovation process for the benefit of the customer!

Hot Lock Bag®
Hot melt applied during bag production allows optimum closure of the bag after filling, via reactivation of the hot melt. Ideal for food, chemicals or pharmaceuticals.

Hot Lock Bag®

Bag Application Centre (BAC)
At Mondi’s BAC the focus is on extensive testing and simulations, using state-of-the-art technology. We don’t leave anything to chance!

Effusion Bag
Thanks to a funnel-formed effusion opening and a handle, the Effusion Bag allows convenient opening, precise dosing and controlled discharge. That’s great product protection!
Innovation for nature – Mondi’s sustainable solutions

We think that bags and packaging in general can be made in a way that reduces the impact on our environment. Mondi therefore helps customers achieve their sustainability targets with the development of intelligent solutions with reduced environmental impact.

Mondi Industrial Bags cares for the environment. To prove this, we have developed a range of products and services that meet high environmental standards throughout their life cycle. Our sustainable products are optimised to save natural resources and reduce waste, and some have received sustainability certifications from internationally recognised bodies.

One of our flagship solutions is our Terra Bag®, the world’s first compostable and biodegradable industrial bag offering moisture protection. Another sustainable and environmentally friendly product is ONE/ONEPlus, our exceptional one-ply bag solution with reduced weight (minus 20%) and volume.

GREEN FACTS

BAG TO NATURE – SUSTAINABLE INDUSTRIAL BAG SOLUTIONS

Our long-standing experience and integrated value chain go hand in hand with a sound professional knowledge of markets and products. Therefore, we are able to deliver innovative and sustainable solutions customised to your needs.

- Biodegradable bags with certified compostability
- Bags made of lower-grammage paper: combining lightweighting and high filling speed
- FSC™- and PEFC™-certified bags

Terra Bag®
The world’s first fully biodegradable industrial bag with certified compostability. A new approach to reducing environmental impact, and no need to compromise on filling speed.

Winner of the EUROSAC Grand Prix as Sack of the Year 2010

SPLASHBAG
SPLASHBAG is designed to absorb less moisture and to prevent moisture ingress if conditions are damp or humid. It resists direct rain for two hours, dampness for 12 hours.

MailerBag
The MailerBag is a paper bag with double adhesive strip on the flap for easy closing and returning of the bag back to the retailer. It occupies less space in the trucks and it is faster to fill in.

Winner of the PART Award, RosUpack 2016

HYBRIDpro
A paper bag offering the benefits of a plastic bag. Optimal weather protection and significantly extended shelf life for the filling good.

Winner of the EUROSAC Grand Prix 2018

Future
Need tailor-made bags?
… We lend a hand

We encourage customers with specific requirements – e.g. a bag needs to be developed or adapted – to work with us during the development process. Our experts and state-of-the-art equipment are at your disposal.

Need filling systems expertise?
… Natro Tech has the answer!

Natro Tech, a wholly owned subsidiary of Mondi, provides a unique expertise in filling equipment, processes and packaging. Natro Tech has been in the business of filling systems for granular and powder products for 90 years with a special focus on construction materials. Experts from Natro Tech can visit your facilities and provide filling know-how on site.
Mondi is an international packaging and paper group, employing around 26,000 people across more than 30 countries. The Group’s key operations are located in central Europe, Russia, the Americas and South Africa. The Mondi Group is fully integrated across the packaging and paper value chain, from the growing of wood and the production of pulp and paper (packaging paper and uncoated fine paper) to the conversion of packaging paper into corrugated packaging, industrial bags or extrusion coated materials. Mondi is also a supplier of innovative consumer packaging solutions, advanced films and hygiene components. We offer over 100 packaging and paper products, customised into more than 100,000 different solutions for customers and end consumers. In 2017 Mondi had revenues of €7.1 billion.